

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-138561

(43)Date of publication of application : 30.05.1995

(51)Int.Cl.

C09K 11/06  
H05B 33/14

(21)Application number : 05-288353

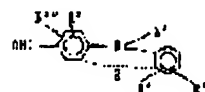
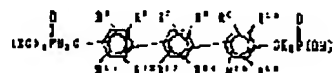
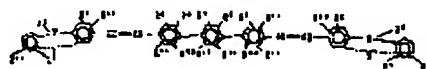
(71)Applicant : IDEMITSU KOSAN CO LTD

(22)Date of filing : 17.11.1993

(72)Inventor : AZUMA HISAHIRO  
HOSOKAWA CHISHIO  
KUSUMOTO TADASHI**(54) ORGANIC ELECTROLUMINESCENT ELEMENT****(57)Abstract:**

**PURPOSE:** To obtain the element containing a compound having excellent hole transport properties, being resistant to crystallization even when made into an element and having good heat stability, and being excellent in film thinness by using a styryl compound of a specified structure.

**CONSTITUTION:** A styryl compound of a terphenylene derivative, represented by formula I (wherein R<sup>1</sup> to R<sup>20</sup> are each H, halogen, 1-6C alkyl, alkoxy, 6-18C aryloxy, phenyl, amino, substituted amino or hydroxyl, provided that any two adjoining members of them may be combined with each other to form a five- or six-membered ring; Z<sup>1</sup> and Z<sup>2</sup> are each H, 1-6C alkyl, 6-20C aryl, 7-20C aralkyl or a bond to the adjacent benzen ring, and dotted lines 1 and 2 represent that the related groups may be combined with each other to form a heterocyclic structure) is used for the luminous layer, hole injection and transport layer, etc., of an organic electroluminescent element. A compound of formula I can be obtained, for example, by condensing a phosphonic ester of formula II with an aldehyde compound of formula III or IV in the presence of a base.

**LEGAL STATUS**

[Date of request for examination] 03.08.2000

[Date of sending the examiner's decision of rejection] 15.04.2003

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]